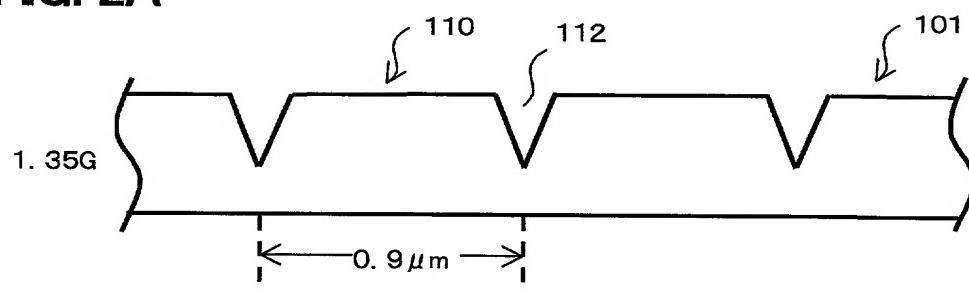
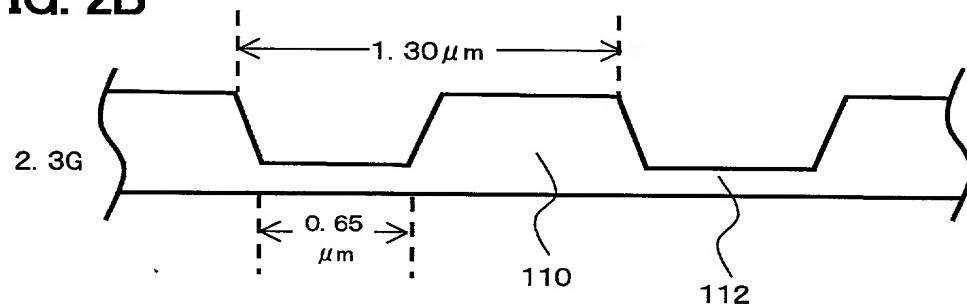


**FIG. 2A**



**FIG. 2B**



**FIG. 3**

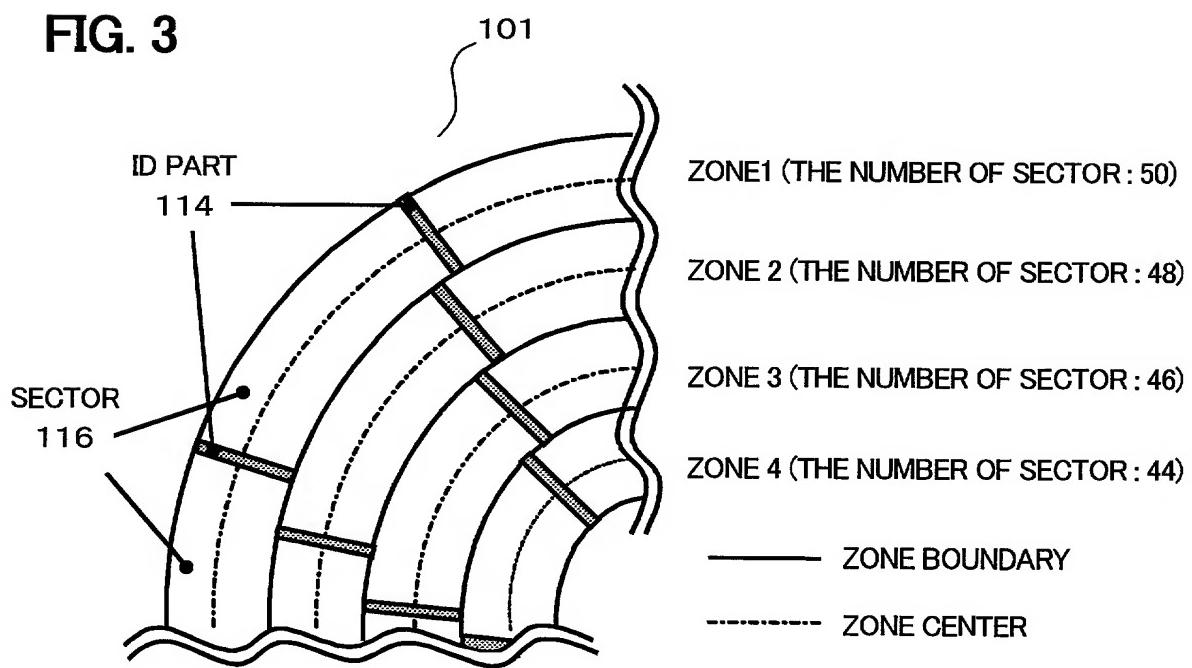
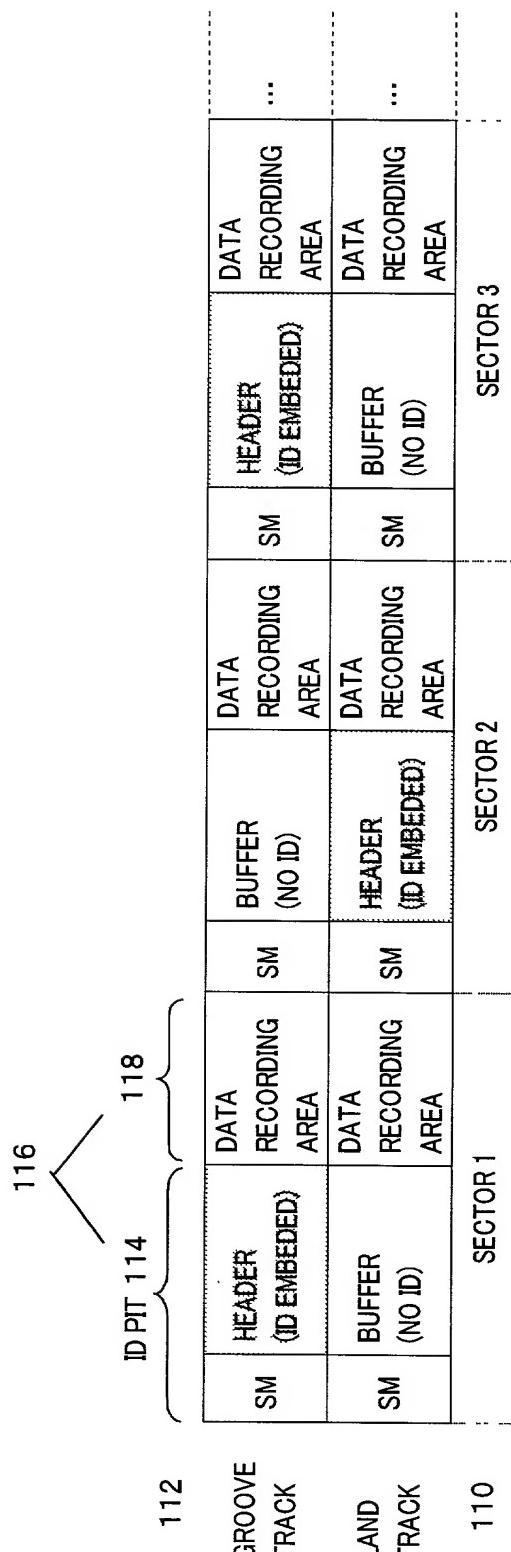
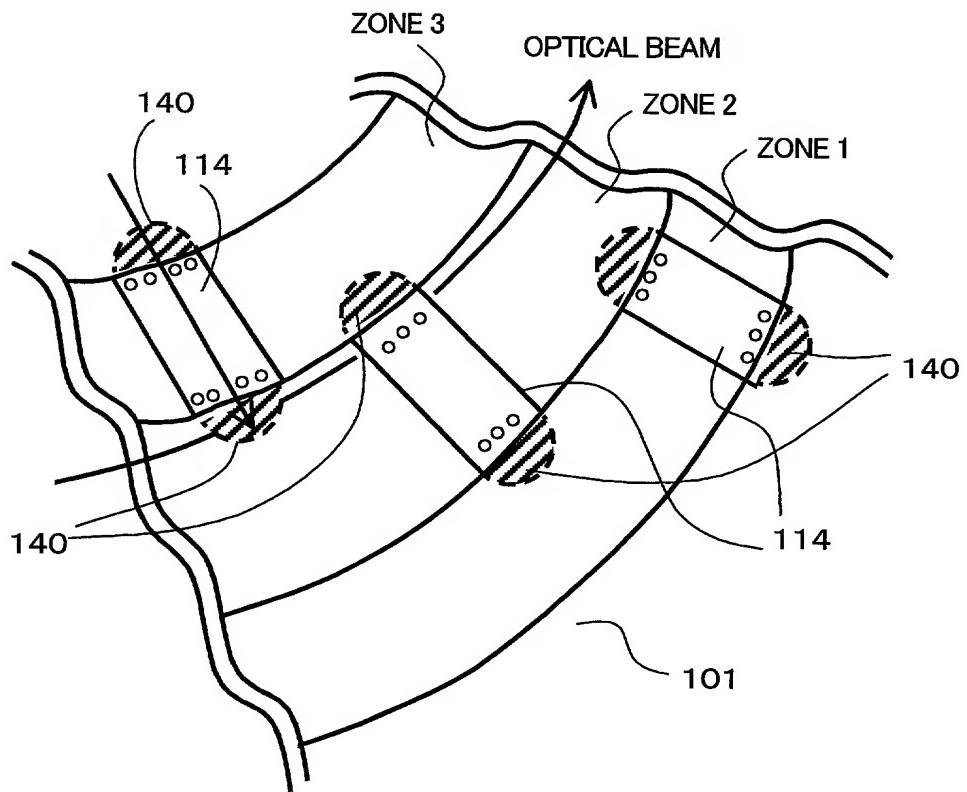


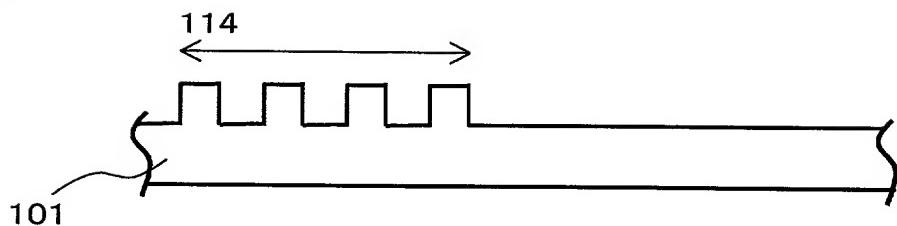
FIG. 4



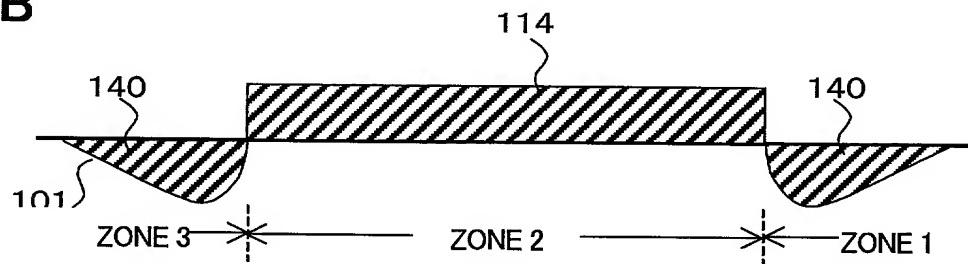
**FIG. 5**



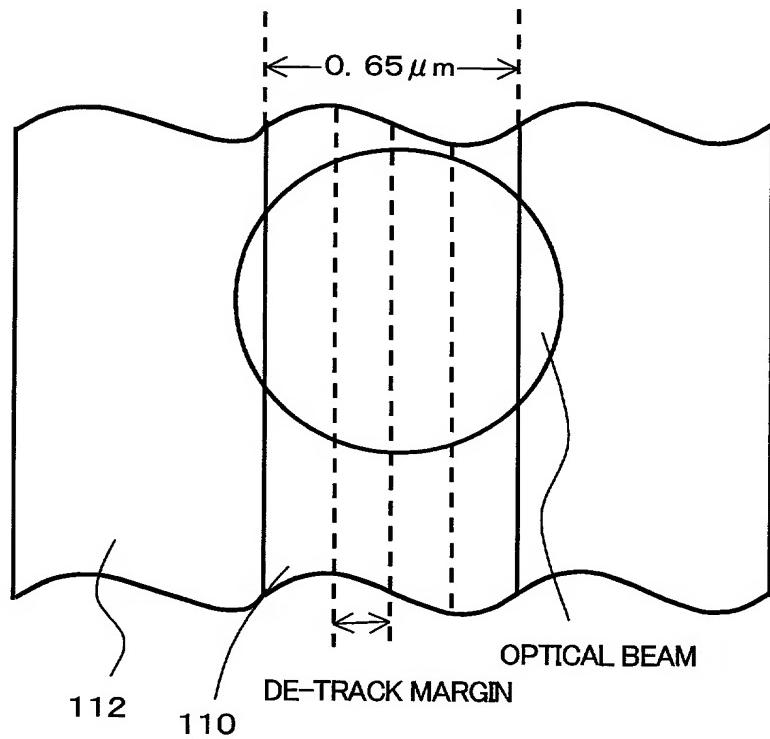
**FIG. 6A**



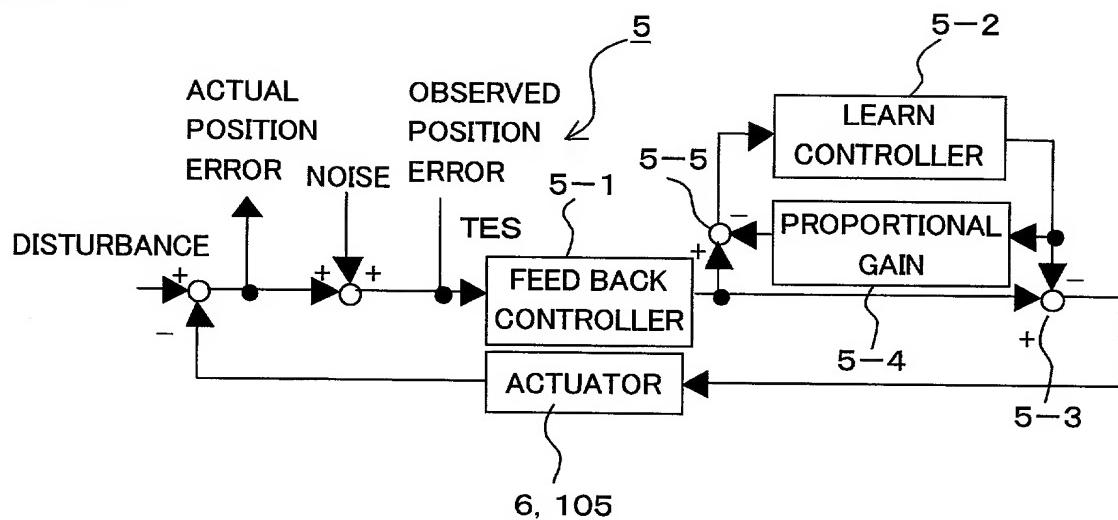
**FIG. 6B**



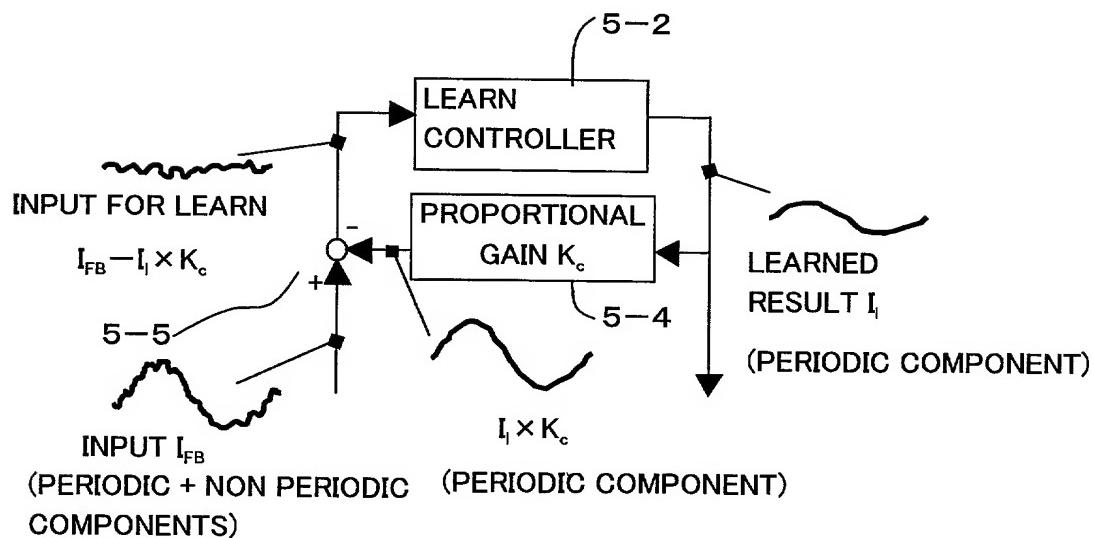
**FIG. 7**



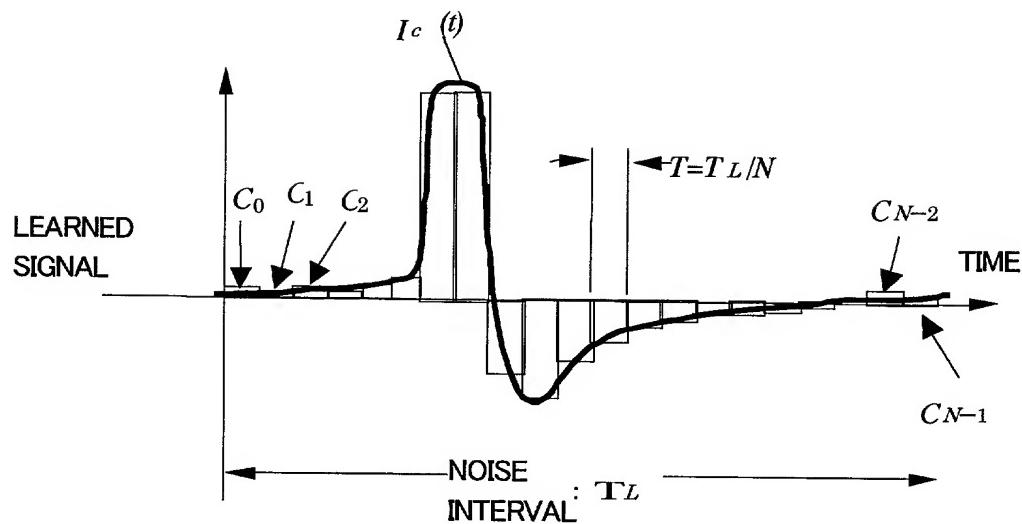
**FIG. 8**



**FIG. 9**



**FIG. 10**



**FIG. 11**

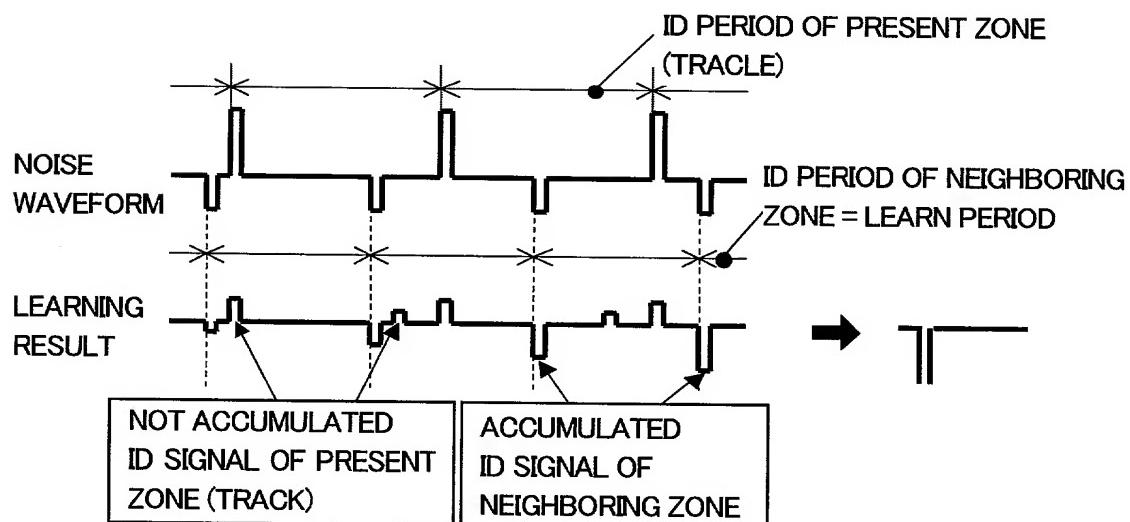
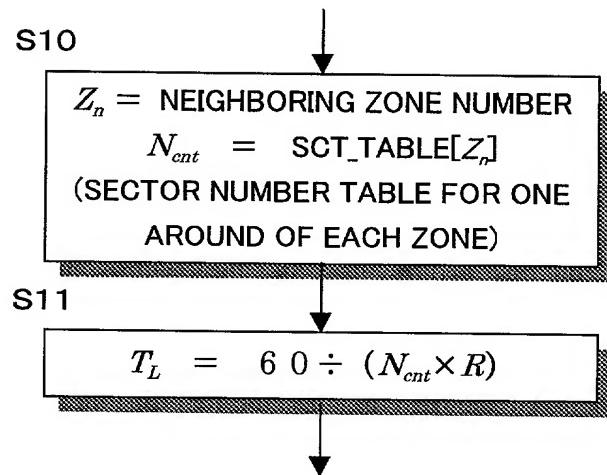


FIG. 12



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FIG. 13

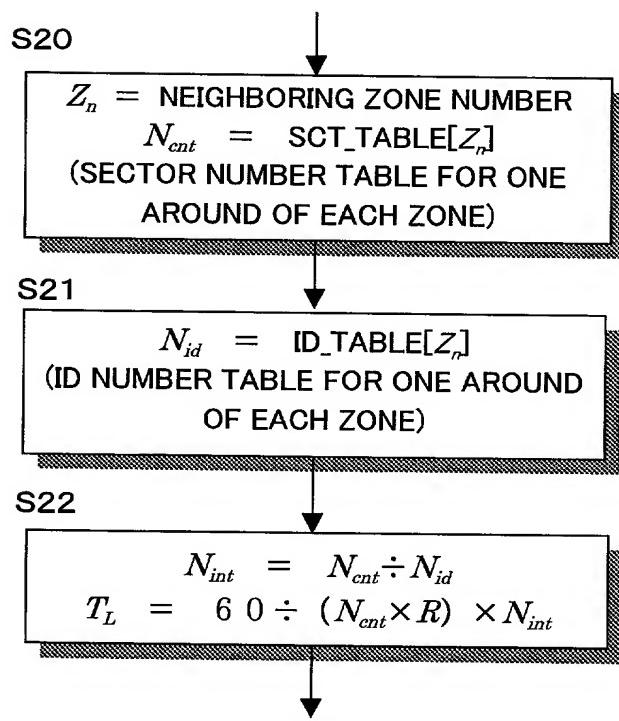


FIG. 14

LEARN CONTROLLER 5-2

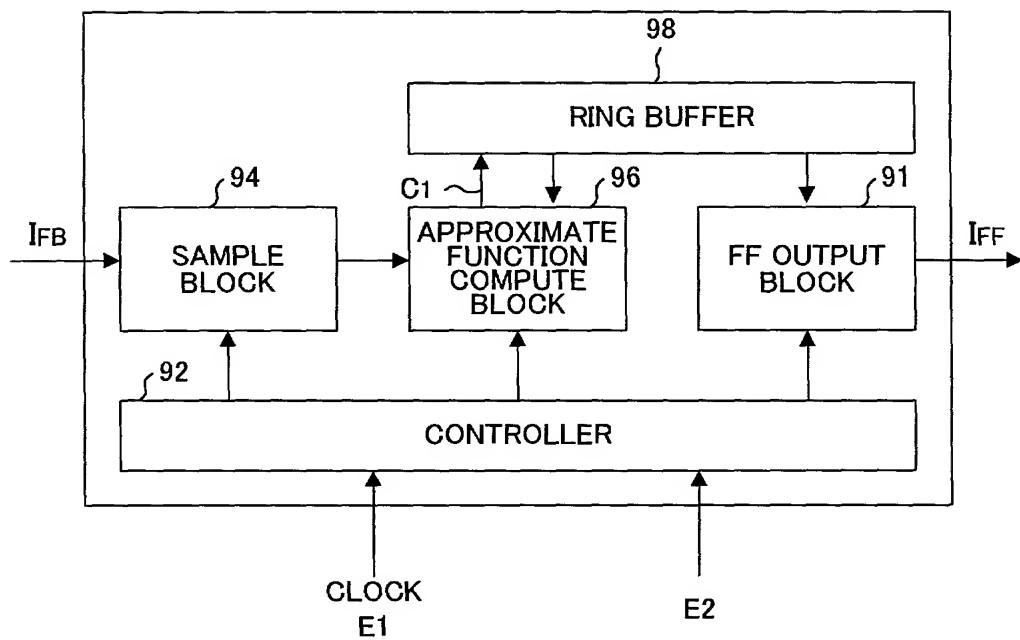
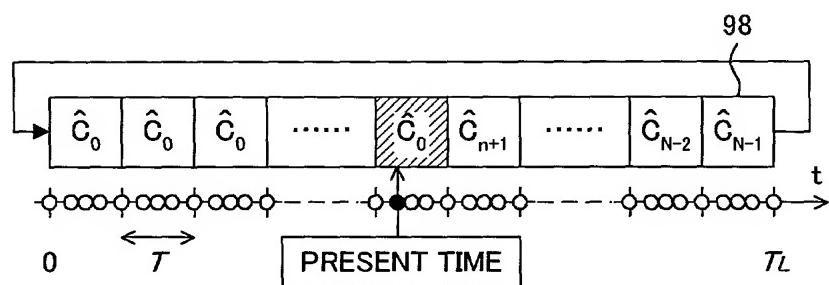


FIG. 15



$$i_u = \text{floor}\left(\frac{t}{T}\right)$$

$$\hat{C}_{iu}(N) = \hat{C}_{iu}(L) + K_i \cdot T_s \cdot I_{FB}$$

FIG. 16

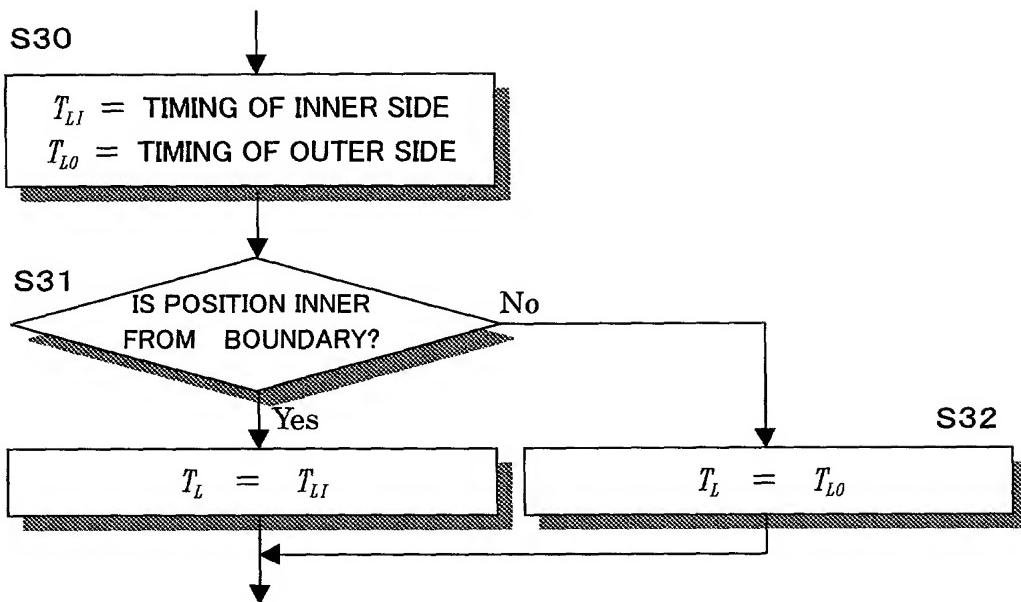
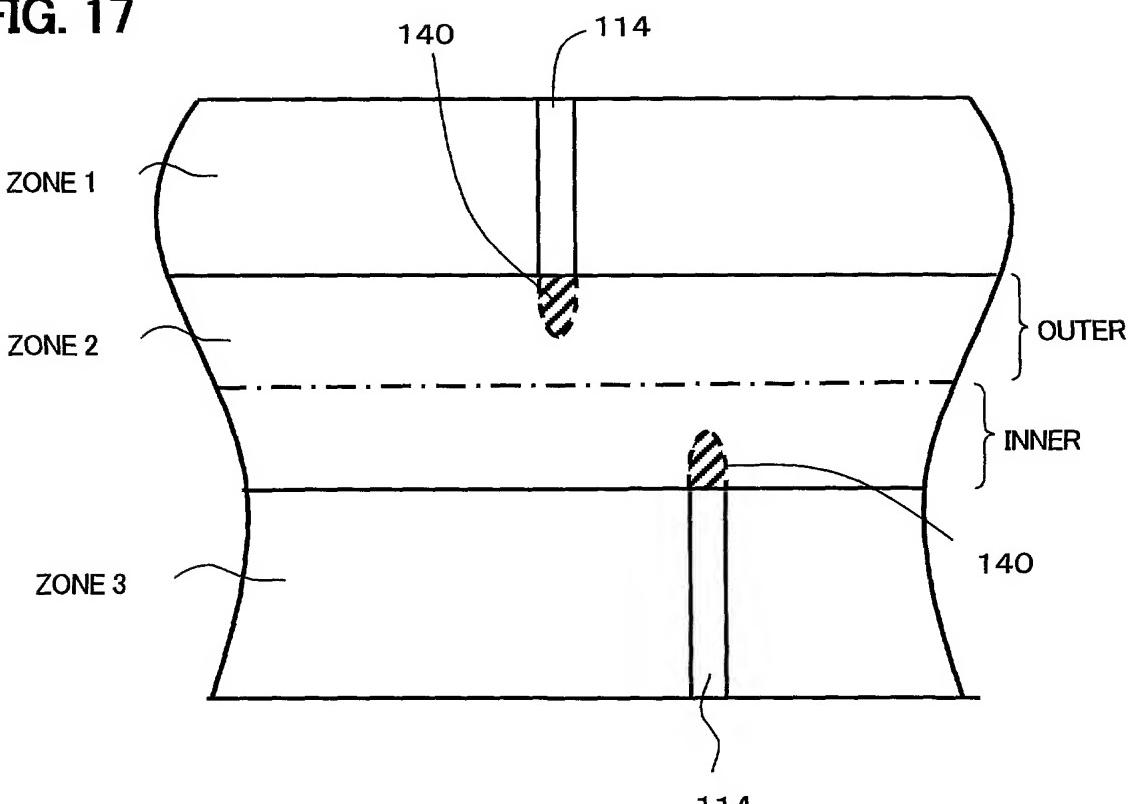


FIG. 17



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FIG. 18

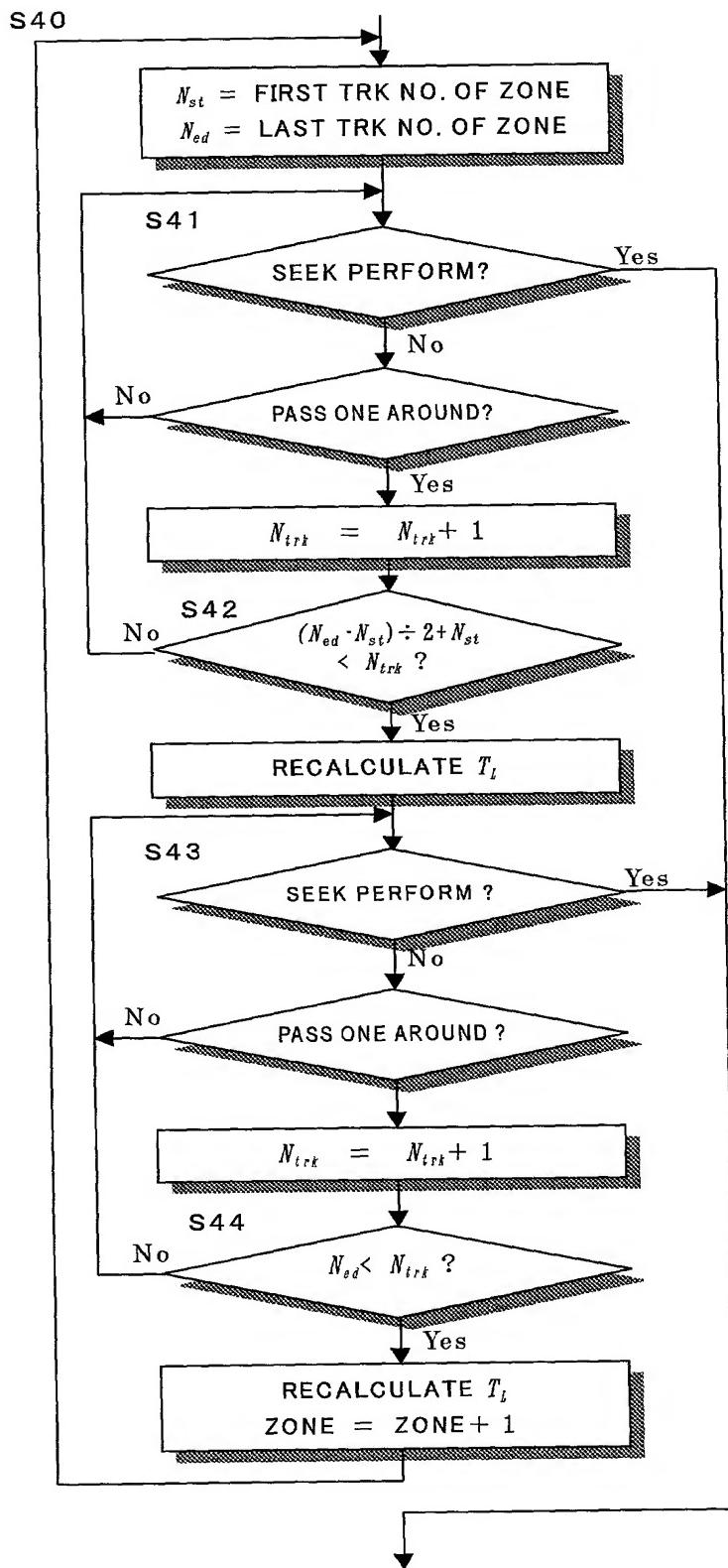
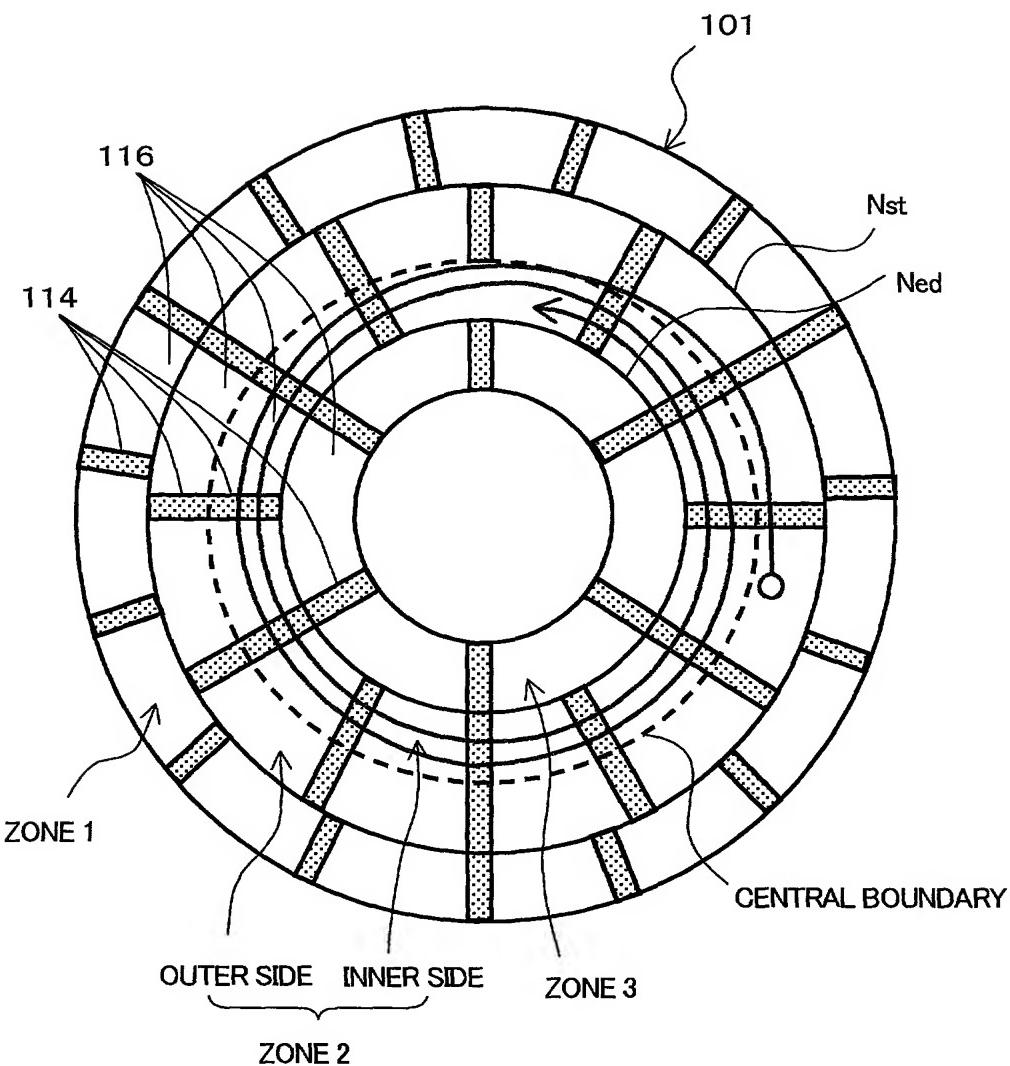


FIG. 19



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FIG. 20

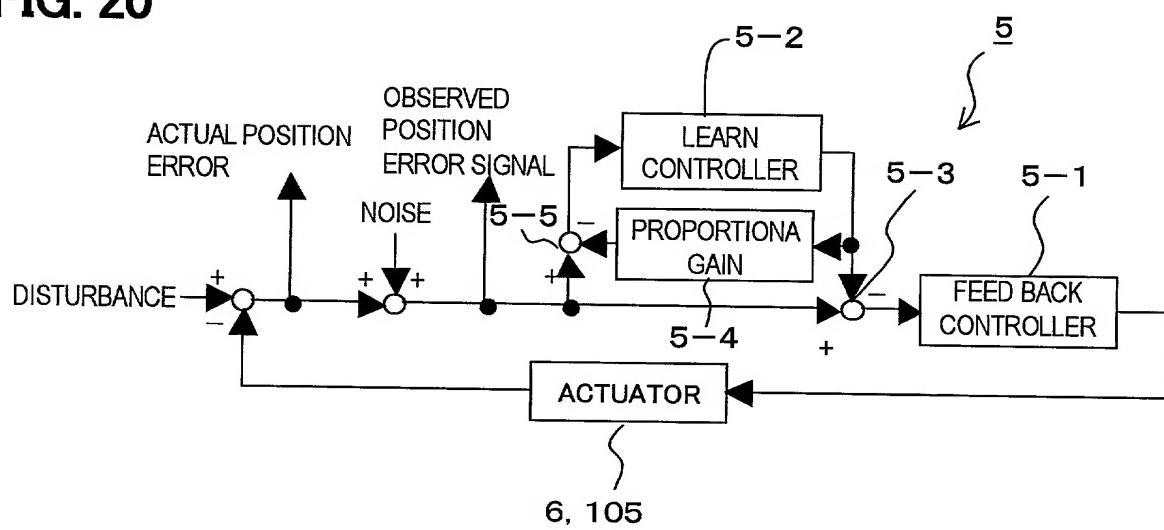


FIG. 21

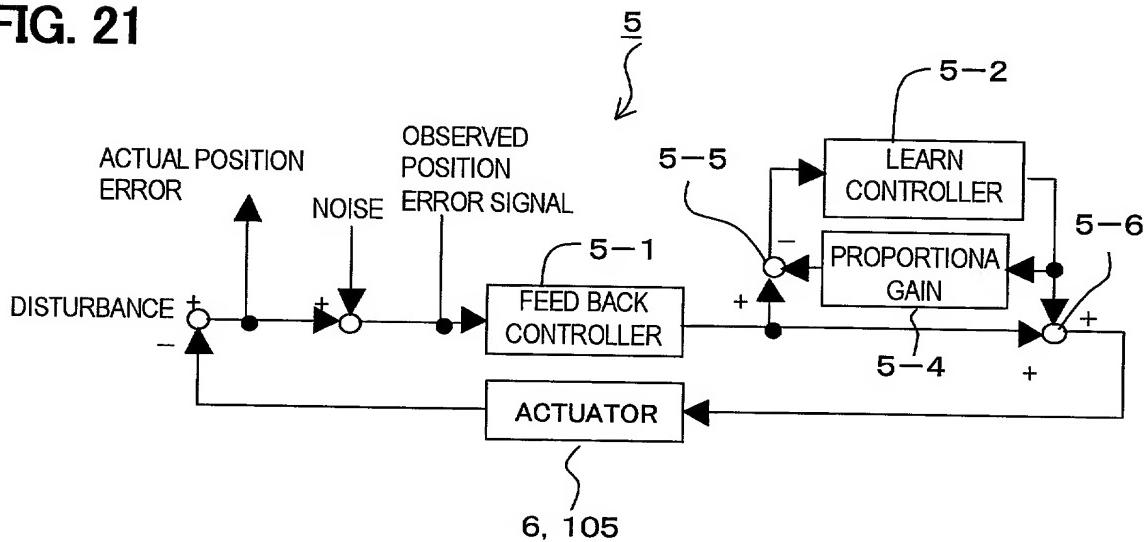


FIG. 22

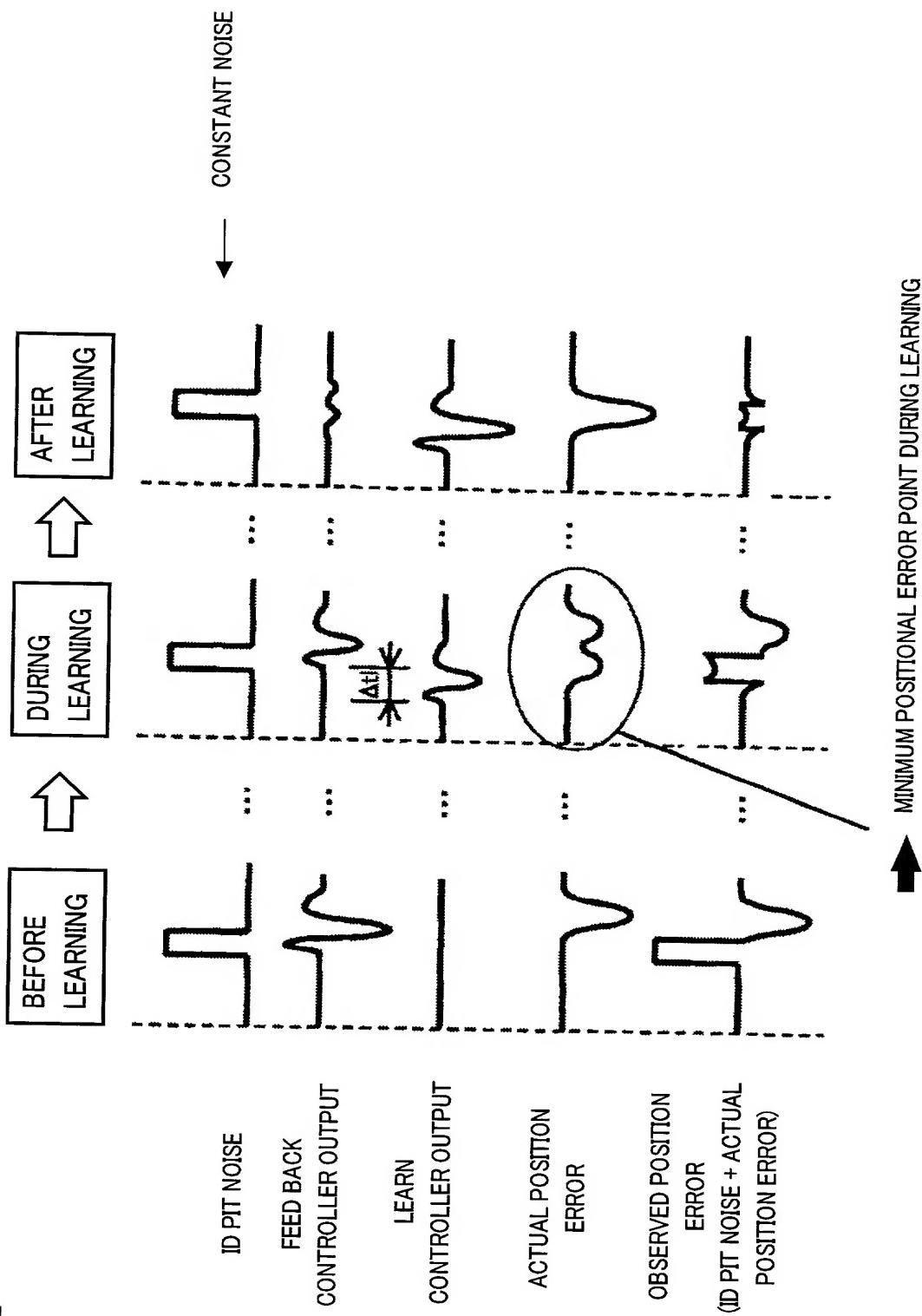
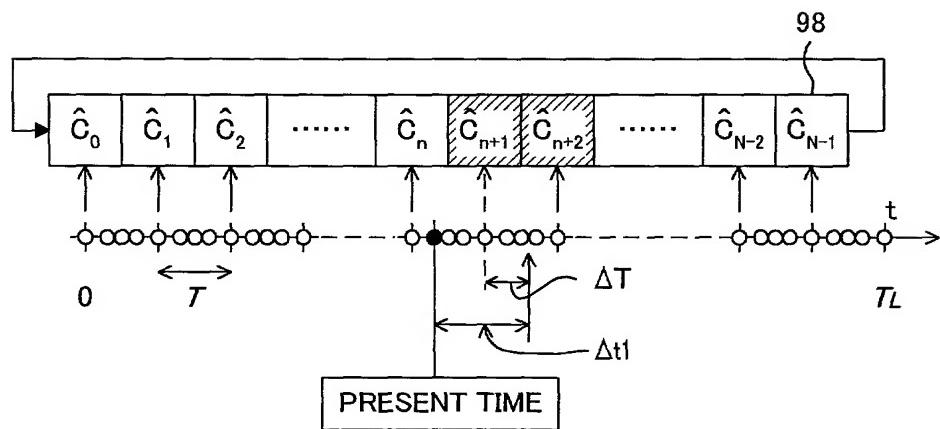


FIG. 23



$$io = \text{floor} \left( \frac{t + \Delta t_1}{T} \right)$$

**IF**  $io \leq N-2$  **then**  $io1=io, io2=io1+1$

IF io = N-1 then io1=N-1,io2=0

IF io  $\geq$  N then io1=io-N,io2=io1+1

$$1_{FF}(\Delta T) = \hat{C}_{io1} + \frac{\hat{C}_{io2} - \hat{C}_{io1}}{T} = \Delta T$$

FIG. 24

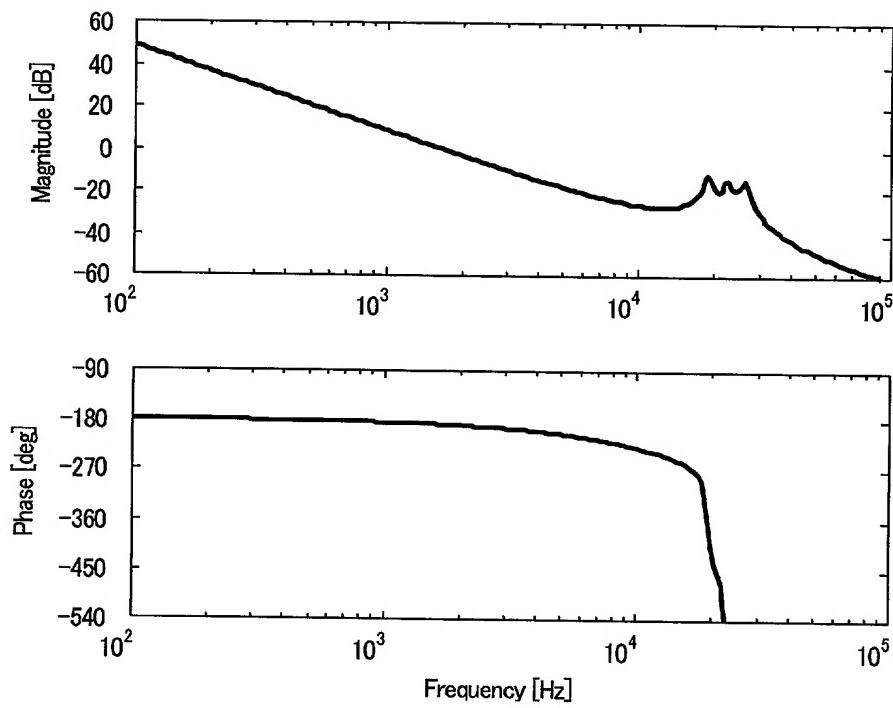


FIG. 25

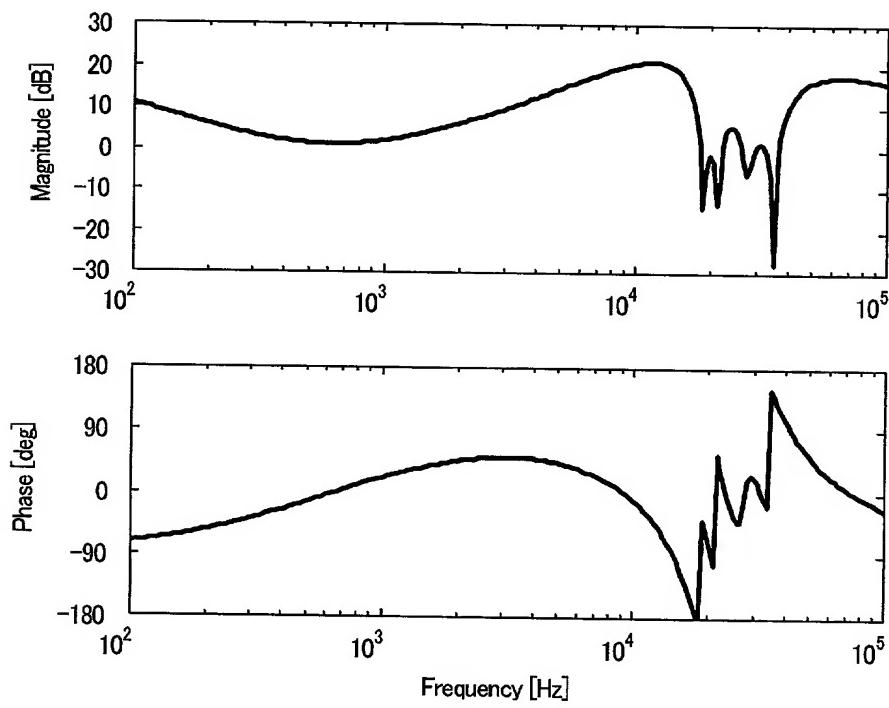


FIG. 26

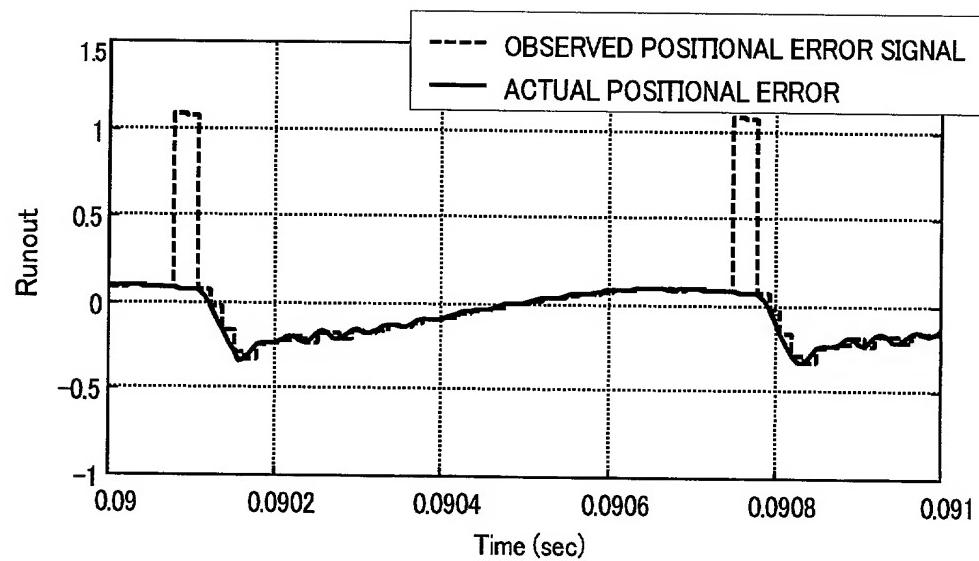


FIG. 27

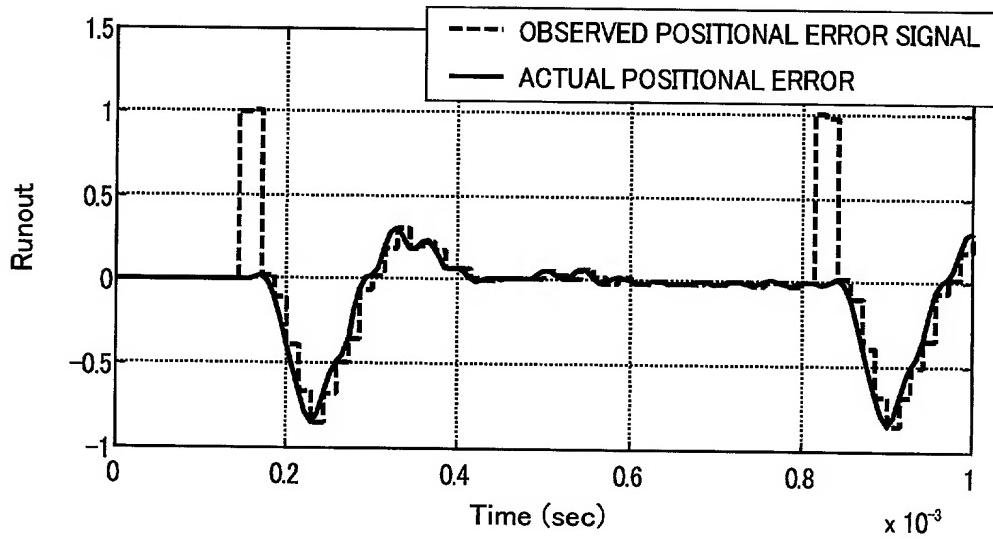


FIG. 28

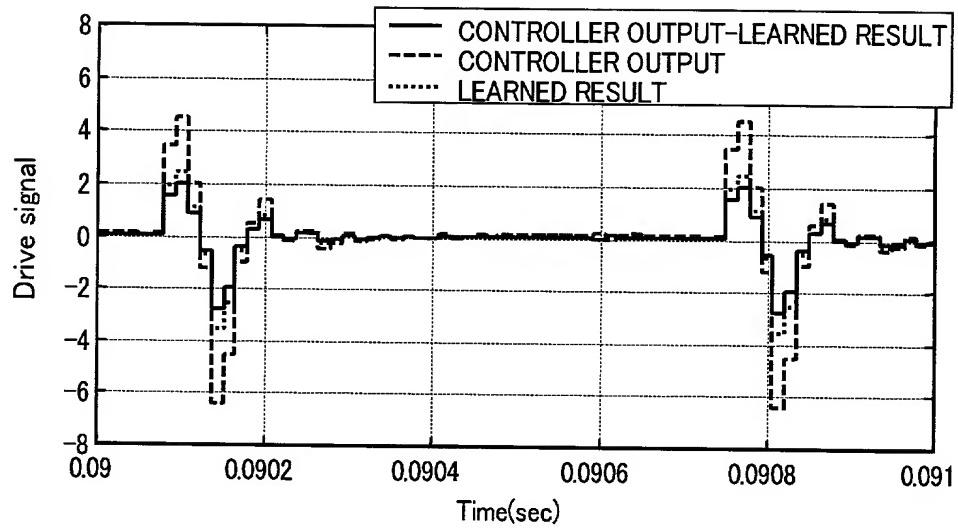


FIG. 29

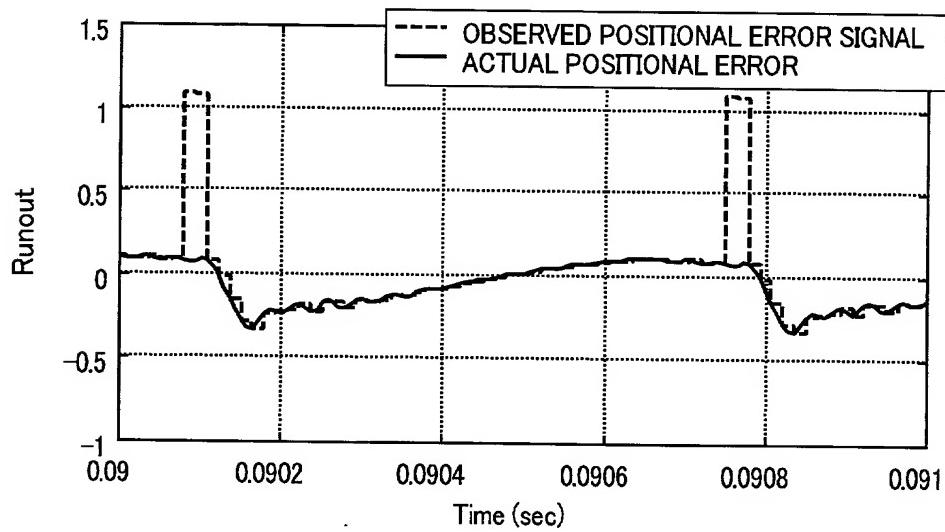


FIG. 30

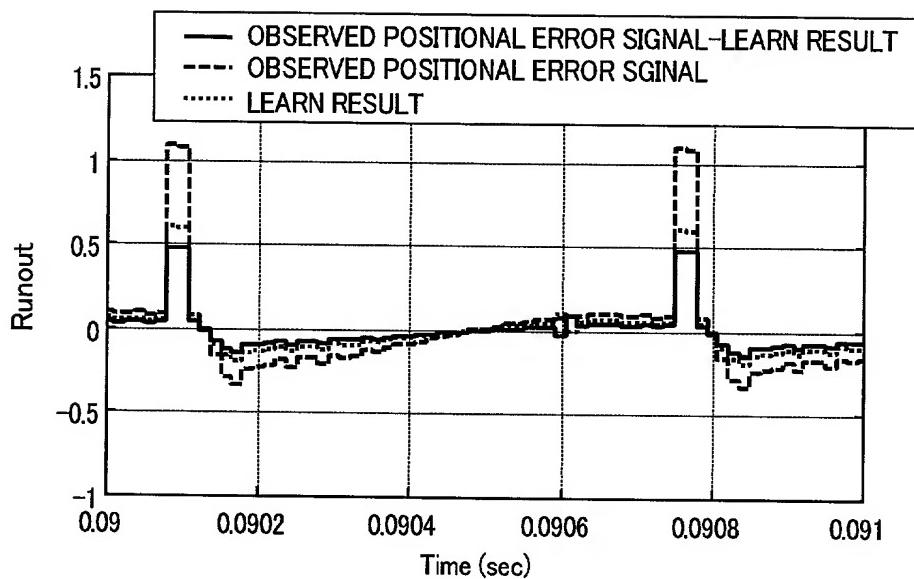
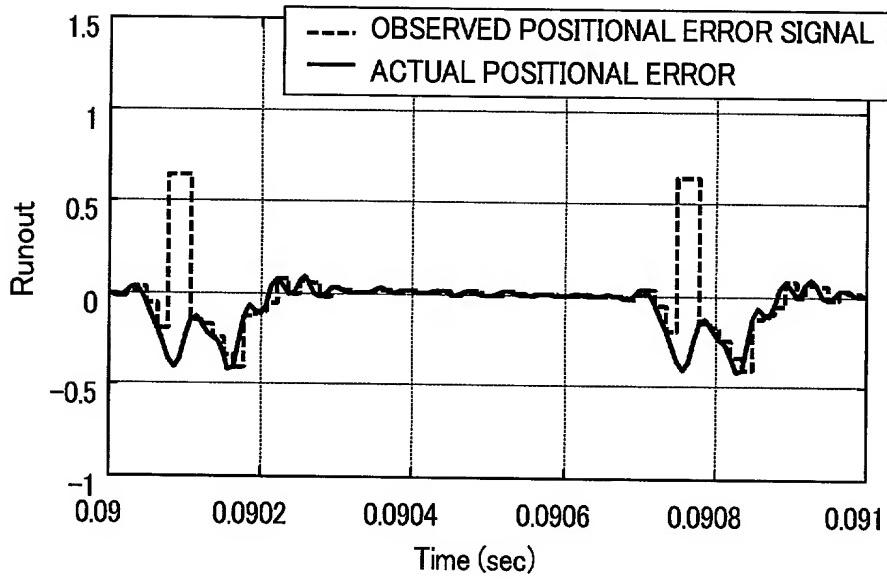
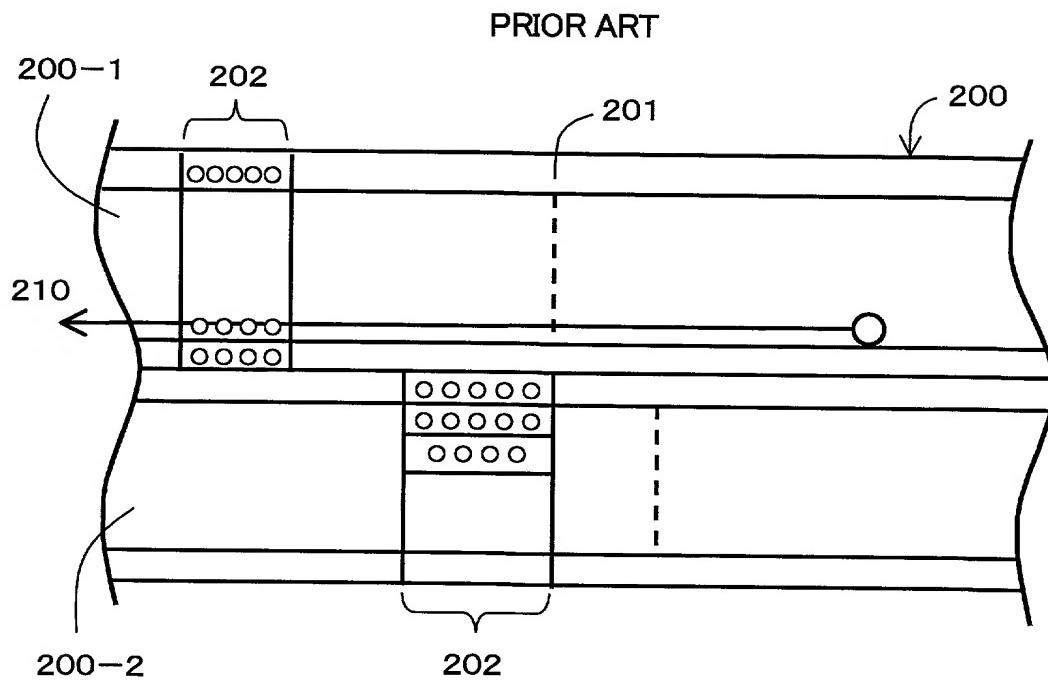


FIG. 31



**FIG. 32**



**FIG. 33**

